

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: ka7you@juno.com
Subject: [3274] \$value of Memory Keyer
Message-ID: <19961031.020546.5431.25.ka7you@juno.com>

I have a chance to buy a clean used MFJ Grand Master Memory keyer. What might be a fair ? It is big and bulky, definitely not a back pack accessory, but It shouldn't slide around on the operating table either, and even in my clutter, I won't have trouble finding it!

Thanks

Rod Johnson KA7YOU NWQRP#120

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [3350] 10m HT
Message-ID: <Pine.SUN.3.91.961031175329.19162C-100000@kitsune.swcp.com>

During the last cycle #22 my friend AA5B and myself borrowed a AEA 10m HT from a friend of his. We were out in my back yard and fired it up. I figured we were just wasting our time! We tuned around finding lots of stations, and finally settled on a JA????? that was calling CQ. We came back to his call, and sure enough we both nearly fainted, the JA came back to our flee ridden signal with a coat hanger (more or less) for an antenna! Hurry up cycle 23, I'm ready for it!! 72 Tom WB5QYT qrp-1 640

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: WD6BOR@aol.com
Subject: [3317] 40-9er kits available
Message-ID: <961031144102_1080426907@emout03.mail.aol.com>

After reading the mail, I thought I would post the information that I have a few 40-9er kits left out of a batch of twenty that I put together for the Valley of the Moon ARC here in Sonoma, CA. I included jacks and connectors, although the earphone jack is mono and requires an adapter to use Walkman headphones.

My cost was a bit over \$30 each because I didn't have the advantage of buying in the quantities Jim and Doug did, but I would be happy to mail them to the first folks who reserve them here. They include the Altoids tin and a couple of FT37-43's for the chokes. Cost with shipping first class mail would be \$35.

Send me a posting and I'll send a mailing address by return email. After a less than happy experience with another email sale, I'll say that this offer

is made with guarentees toher than I'll make a reasonably good effort to see that the USPS gets the package to you. It's up to you to make the thing work after that.

Darrel, WD6BOR

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Paul Cereste <cereste@myapc.com>
Subject: [3323] 8088 Logger
Message-ID: <s278c618.089@myapc.com>

Ron es list,

I am running Log-EQF v8.xx, currently on a 386, but I ran v6, 7, and 8 on a 8088 until a few months ago. I used to get lock-ups if I tried to run the DXCC or WAS utilities while the logging screen was displayed, but if I exited the logging program and started those utilities from the dos prompt, they ran fine.

The minimum files list is in the docs that come with the program.

I exchanged e-mail with Tom, N3EQF, more than once. I found him to be very helpful and responsive.

Its a very gud logging program. I've tried 4 or 5.

73 de K1CGZ, Paul

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Robert D. Haslach" <rhaslach@CapAccess.org>
Subject: [3366] AEA 10M
Message-ID: <Pine.SUN.3.91-FP.961031215258.29607B-100000@cap1.capaccess.org>

You reminded me that I sold mine a few years ago! I am in the market for the AEA 10MHT and/or/also for the Tokyo 40-15-6m HT. Anyone got a spare?

Regards, N3FRT

Robert D. Haslach

ARK-40, 40-9er, into a 40m horizontal loop in WDC "The Nation's Capital"

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [3276] An 80-Meter "Utility" Antenna
Message-ID: <19961030.181917.4727.0.wb2vuo@juno.com>

In the RSGB's "Amateur Radio Techniques" Aerial chapter, there is an 80 Meter "Utility" antenna, credited to Bill, W6SAI. It is an Inverted "L", with a 24 ft vertical leg, and a 44 ft horizontal flat top. It is series-fed with a 500 pF variable, and operates against three 66 ft long counterpoises or radials.

This is about the simplest 80 Meter limited-space antler I have seen, and there's no reason that the vertical leg couldn't be higher if you have the height available.

All sorts of possibilities out there...

72/73, Keith, WB2VUO, QRP-L #582
Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: bachmann@ari.net
Subject: [3368] apology
Message-ID: <199611010332.WAA26952@mtolympus.ari.net>

Nevermind on message 93 of digest 530. I really have been paying attention, but I get the digest. Message 3 of Digest 530 has the Wide Range VXO paralleling crystals. Message 93 has my novel idea(I thought), two crystals in parallel. I hadn't seen the earlier messages when I sent mine, they hadn't come here yet....all 96 messages came together. Not to mention duplication of the 10.24 Mhz crystal info....

sri, 73,
Rich

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [3288] Article in QRPp Vol3 #3 Sept 95, pg. 32
Message-ID: <3278ae5f.pandora@pandora.lugs.org.sg>

Hi,

I was just reading one of the back issues of QRPp and came across this article in the Volume 3, Number 3, Sept. 1995 on page 32, entitled, "Variable Power Caveat" by W6EMD.

In his short article, he claims that we should avoid varying the output power of a circuit in order to avoid mismatch at the filter input. Essentially he is saying that since the filter input expects 50 ohms (typically or whatever else it was designed for), and the output impedance of the final transistor depends on its power, we should stick to the power for which the amplifier was designed or risk degraded filter performance.

Well, I think I disagree.

I don't think there is a problem with varying the output power, especially varying downwards. His argument was that since output impedance is given by:-

$$Z_{out} = V_{cc}^2 / (2 * P_{out})$$

any change in P_{out} will result in a change of Z_{out} .

Well, my way of thinking is, once we start reducing the output power by way of drive reduction, the above formula no longer applies since the voltage swing will be less than V_{cc} and with that change the relationship between Z_{out} and P_{out} is maintained. Neither can you increase your power beyond $V_{cc}^2 / (2 * Z_{out})$ because this equation defines the MAXimum power that can be derived from this circuit.

So, I would contend that his article is based on a misunderstanding of the Z_{out} equation. Can anyone confirm my conclusion or show me the error of my ways? Thanks.

73 de 9V1ZV Daniel

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*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg          |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
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From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Brian Kassel <bkassel@enet.net>
Subject: [3336] Buy hose cheap 10M Rigs Now
Message-ID: <32798C24.38D6@enet.net>

Howdy OT's and the Newer Folks:

With all of the talk about how the upper HF bands will be performing when Cycle 23 begins to kick in, a related, but somewhat forgotten point comes to mind.

Right now, 10M-only rigs like the Regency HR-2510, are cheap, I mean really, really cheap. This isn't because these type of radios are poor performers, it's simply because of supply and demand. they all can be brought down to QRP levels quite easily.

Heck, I recently picked up a very nice AEA 10M HT with SSB and CW, several crystal pairs, (it uses a VX0) a nice carrying case, external mike, extra whip antenna, and 3 sets of Nicads for.. wait, here it comes..50 bucks!

This is a fun little radio, actually made in Japan for AEA by Mitzumo.

The guy just couldn't get any more the rig, as he put it "10M is a dead band" Yea, right.

Now when those bands start heating up again, I'll be ready.

So any of you new-comers (this is Cycle 5 coming up for me ughhh!) might start listening to those swap nets, in between Fox chasing of course, for some of these 10M bargains. The WWW is another place to browse.

Oh yes, and those 10M stories, there all true. In a few years you'll have a few of your own!

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*****
* Brian D. Kassel W5VBO - QRP NERD 10 - ScQRPion #17 *
* QRP-L #404 - ARCI #3623 *
*****
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From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: cooper@gmpvt.com (Tom Cooper)

Subject: [3314] Chuck's challenge
Message-ID: <199610311937.0AA02854@web.gmpvt.com>

Since I'm going to be SSing all weekend anyway, is there another QRP'er within 150 miles of Burlington, VT who would like to team up?

You could be in PQ, NNY, NH or MA and still be close enough.

Tom WA1GUV

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "WILLIAM R. COLBERT" <v31xe@dzdn.com>
Subject: [3320] Crystals
Message-ID: <32791D90.4FFF@dzdn.com>

Seeing K1MG's post containing some Peterson crystals reminded me that over the past year or so there has been occasional postings concerning Peterson Radio in Council Bluffs, Ia. The last time I called (about a year ago) Mrs. Peterson was still in business and making crystals to order - her pricing was not as good as C-W but compared to what some are asking now \$7 to 8 is not a bad price. As I recall from Peterson's little data sheet crystals in FT-243, HC-6, etc are (were) available. It may be worth a call or note to:

Peterson Radio Co.
2735 Ave "A"
Council Bluffs, Ia 51501
Tel. 712-323-7539

Hope this info helps.

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72/73 Ray Colbert, W5XE, SOWP-1064m
also af852@rgfn.epcc.edu
El Paso, Tx

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: BWHITTEM@mailgw.sanders.lockheed.com
Subject: [3279] dry on cw @337khz????
Message-ID: <27899050@mailgw.sanders.lockheed.com>

does anyone know where the dry beacon @337khz is from?

i hear it about 559 in nh with indoor dipole. its been
around for years.
thanks
barry
wb1edi

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Steve Slavsky <sslavsky@CapAccess.org>
Subject: [3356] DX QSL Services
Message-ID: <Pine.SUN.3.91-FP.961031202530.2658K-100000@cap1.capaccess.org>

After working all those (12 or so) countries at QRP levels on SSB this past weekend, I am trying to find out what DX QSL services are available. I know about the ARRL outgoing service, but their info says they just mail to bureaus. I have used the WF5E service (6 cards for a buck and I don't often work new countries) in the past, but can't verify if they are still in business.

Does anyone know of any other similar services which research managers, routes, etc. and only go to the bureau as the last resort??

BTW, added Nova Scotia to my collection of EMPS contacts two nights ago.

Thanks & 72/73,

Steve, N4EUK
Reston, VA
QRP-L #143

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [3330] FCC action notices
Message-ID: <961031205453_70731.722_EHM65-2@CompuServe.COM>

Howdy all. I do realize that the gate2 call sign changes will take a few days more to accomplish. While waiting, I cruised the various suggested www sites to read the new listings for other non-gate2 types of changes.

My question is whether these sites will start posting the changes about 1 week after the FCC actually makes the changes, if so I wonder if the changes

will be posted faster somewhere else?

Dan

70731.722@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [3286] For sale: Vibroplex Iambic Standard Paddles
Message-ID: <Pine.3.89.9610310839.D6873-0100000@w3eax.umd.edu>

Like-new-in-box Vibroplex Iambic STandard paddles, bought 1.5 years ago
for \$129, selling for \$90 plus shipping.

Selling for KA3RTE, reply to me. Thanks!

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Jerry Finsen <GFINSEN@PFS.COM>
Subject: [3313] Fox Hunting Question
Message-ID: <327922D9@GATEWAY.PFS.COM>

I am a new commer to fox hunting. Been at it for two days now..

Last night I was busy looking around 7.112 fir W?7SSA based on a sched I
received two days ago. No luck. I heard WD4MSM fine. But I wasn't
looking for him so moved along as soon as I got his call. This morning I
received the listserv digest and found out he was a fox. I had him in my
sights and didn't know it!

Is there somewhere I can find out who the foxes are going to be on a given
evening? I receive the digest version of the listserv in the morning --
usually the moring after foxes have done their thing.

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: James Bennett <james@research.nj.nec.com>

Subject: [3308] FOX Monday Nov. 4!
Message-ID: <Pine.sol.3.91.961031124521.499B-100000@shakti>

Group,
I will be having my first turn as fox this Monday evening.

Fox station: KA5DVS
Operator: James Bennett (Jim)
Location: Hightstown, NJ
When?
Monday evening, November 4 (in the US)
=9-11PM Eastern
=8-10PM Central
=7-9PM Mountain
=6-8PM Pacific
=0200-0400 UTC (Nov. 5)

Exchange: RST/SPC/Name/QRP-1# or power

Rig: Yaesu FT301S at 5W
Antennas: Dipole at 40ft and quarter wave vertical.
Frequencies: between 7.034 and 7.037
(If QRM is too bad I may go below 7.034)

Thanks and hope to hear you in the hunt
James Bennett
KA5DVS
QRPL# 63

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Brad Mugleston <bmug@gw1.com>
Subject: [3298] FOX Schedule
Message-ID: <199610311559.AA11232@gp-ipc97.gw1.com>

How can one get a copy of the Fox Schedule via EMAIL? I know its out there but I forgot.

Thanks

Brad

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Brad Mugleston <bmug@gw1.com>
Subject: [3354] Fox Schedule
Message-ID: <199610312235.AA11812@gp-ipc97.gw1.com>

Thanks,

I don't believe this list, I ask a simple question and I get an answer (15 to be exact) none of them were look here and get it your self. No not this group, everyone went out of their way and gave me a copy of the schedule. Some included the instructions on how to get my own copy but enclosed a copy so I wouldn't have to do it myself.

What a great group.

One thing was common - NO Novice Tech Schedules - CHUCK is there one out there? I know there were some problems with getting it organized (I screwed up in getting my dates in) and now Im lost. I don't know when Ill be on next.

Thanks

Brad, KB0ROL

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: ka7you@juno.com
Subject: [3342] Fox Schedule ?
Message-ID: <19961031.140123.5039.7.ka7you@juno.com>

I am also confused about where and who to look for. It seems that there are sometimes two foxes at the same time. Is that the case? Or am I mis-understanding the posts.

My eyesight may not be as good as it was in my younger days, but I think I read pretty well! I know I sure read a lot more, since I subscribed to this QRP discussion group. I am learning a lot too! Keep it coming...Please!

Is there a list that my address can be put on, that will ensure I get the latest schedules and updates for the Fox activities, without tying up this venue.

Thanks,

Rod Johnson KA7YOU NWQRP#120

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: cooper@gmpvt.com (Tom Cooper)
Subject: [3295] Fox tonight!
Message-ID: <199610311557.KAA26795@web.gmpvt.com>

Happy Halloween, QRPers!

I'll be the 40M FOX tonight 2100 to 2300 EST (0200 to 0400Z), ~7.038.

For those of you who succeed and would like QSL treats, my address is now:

Tom Cooper
143 Spruce Street
Burlington, VT 05401

If you don't get through on the first call, have another candy bar and try again!

WA1GUV

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3371] FOX VT
Message-ID: <199611010403.EAA01239@chuck.dallas.sgi.com>

Gang,

I turned on the rig at just before 0200UTC and I was really worried. I did not think that the band was all that great. Did hear some DX after a while and I saw just the ears of the fox but then he ducked just behind a couple of QSOs and I didn't see him again for over an hour.

At about 0340UTC I saw the ears come up again and the brown eyes and the nose. I knew I had 'em. Called but no answer. He called CQ again, so I slide the RIT on the Explorer and move over. Must not have him in the crosshairs of the scope. Fire again, missed again.

OK, now to panic. I go across the room to the closet and get the little gun, the SWL-40. I know that I can see the path of the 'bullet' on this puppy, just in case. Swap the wires, get the BNC to -239 adapter

and power it up. Tune just a second and there the puppy is. Fire and he's down.

Looks like to me it's CA-5 and TX-5. We'll wait til they turn the lights out at driving range and bring in the chairs.

Who said that QRP isn't fun?

Thanks Tom. Good work and thanks for giving out a rare one. Do hope the guys west of TX did manage to get you.

dit dit

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QS0s=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: NZ8J <timcook@erinet.com>
Subject: [3351] FS: KR1-A Ten Tec Paddles
Message-ID: <32794C5B.5ED5@erinet.com>

Like new, not a mark or scratch Ten Tec KR1-A Iambic Paddles. Matches the 509 and early Triton 4 series as far as color. Collector quality. Same mechanically as the KR-50 keyer. Magnetically controlled tension, over ride switch, complete with original box, packing, paperwork and accessory pack that came with it when new. (rca plugs and allen wrench). \$50 shipped. email for more info
Tim
NZ8J

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [3304] FT-243 crystals
Message-ID: <199610311730.LAA15610@multi2.pic.net>

It is gratifying to hear about all the "vintage" transmitter projects. I have already gotten more requests than I have crystals, so i will take all the requests that I receive by the end of the day Friday, and pull the winners out of a hat. If I turn up any more crystals in my cleanup, I'll add them.

Wish I had more to give out.

Special mention goes to Dave N9uxu, who managed to communicate the concept of 'begging' very very clearly, using just ASCII text. hi hi. Just imagine what he could do with a straight key!

gl
Mike K1MG

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Craig LaBarge <74740.3166@CompuServe.COM>
Subject: [3353] Gel Cell Float Charge Voltage
Message-ID: <961101010653_74740.3166_EHB53-1@CompuServe.COM>

Gang:

OK...I *should* know this because there has been a zillion threads on this over the years, but I misplaced my notes on the subject. The question is: When charging a gel cell, what is the voltage to use when you want to leave the charger on indefinitely without damage to the battery?

73, Craig WB3GCK

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [3300] Halloween License
Message-ID: <199610311555.KAA26536@mime4.prodigy.com>

Twenty-seven years ago today I got my License(marriage) and have never had to do a Trick to get a Treat. Hope you are all so lucky...Enjoy the Halloween festivities. 72/73/88.
Floyd(& Joyce) NQ7X Phoenix ScQRPion

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: chas@nmaa.org (Charles Kadesch)
Subject: [3292] Halloween Log
Message-ID: <3278F7F4.AAF@nmaa.org>

Last Halloween eve I heard the following signals
on 40 CW: GH0ST, W1TCH, G0BLN, and SP00K.

Listen closely tonight.
72 de Chas W8KUX

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: JACKS118@aol.com
Subject: [3363] Happy Halloween
Message-ID: <961031212741_1813240960@emout15.mail.aol.com>

Happy Halloween to all. Sorry for
the use of the bandwidth.

73/72 de KB9LEB

--

dit dit
KB9LEB ==> Jack St.Charles, IL
jacks118@aol.com
<http://members.aol.com/jacks118/kb9leb.html>
Worked 22 states total
Worked 21 states on SSB
Worked 1 states on CW
Worked 1 countries
QRP-L#796
ARRL FRRL QRP-L

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Jeffrey M. Poulin" <jpoulin@erols.com>
Subject: [3277] haunting situations
Message-ID: <199610311030.FAA02030@smtp1.erols.com>

Steve wrote:

Was deep in cw tonight working KK7N Mike on 40 meters. Had the Yaesu phones on (full over the ear, very quiet) when a hand suddenly appeared in front of my face! I jumped, good thing I was copying not sending, and turned to see the xyl trying to get my attention. I didn't even know she was in the room. Whew! Thought Halloween was a night early. When I told Mike about it on the next go around he cracked up - his xyl has done it to him too. So, just for fun, any other spooky qso stories since its Halloween time? 73 all.
Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230
Norcal 40A es Oak Hills Spirit II es dipole

Yeah. I have a similar ghostly problem and the ghost obviously lives in my headphones. It's a sneaky little devil that compels my wife to tap my

shoulder or wave a hand in front of my face. But ONLY when I am concentrating so hard the house could fall down around me. Like when I finally find an operator sending *just* over my copy speed. Or if I am SWL and I finally pull in an English language broadcast (monthly for approx. 37 seconds) from Abu Dhabi that registers 1/2 an S unit. I don't know if she is testing my heart or our life insurance policy. ;^)

Jeff/KF4JSV QRP-L #743

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [3282] HB: First check out of circuit board
Message-ID: <4895B75948@dental3.ab.umd.edu>

Gang -

After looking at some of the discussions about "firing up the board and waiting for smoke" I got to thinking about what makes for successful board building.

I learned a long time ago (early 60's) an old trick from one of my military instructors, if you suspect a short then use a light bulb in series with the circuit. What ???, you say. Yes, put a light bulb in series with the circuit. Since the unit is "shorted" it acts as a piece of wire and the bulb is the load, it will be on if there is a short in the circuit. Trouble shoot for the short. Most circuits will have normal voltage readings or close, the circuit where there are no readings is the suspect circuit. Curing the short will "outen the light" as they say in Pennsylvania. Of by the way, if it is a 12V circuit, use a 12V bulb with the current handling capability of the current drain of the board under test. If it is a 110V circuit a normal 150W lamp works for most equipment.

Hey, why ever ruin a circuit again? Test it before you smoke it. Hope this helps those who wish to build and yet are afraid of smoke testing. Haven't ruined a circuit in years.

73 & 72

John <N3REY>

Always QRP!

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Peter C. Wotherspoon" <Peter.C.Wotherspoon@hydro.on.ca>
Subject: [3337] HB: FT-243 sockets
Message-ID: <Pine.SUN.3.91.961031124904.2806D-100000@strong.Hydro.ON.CA>

Also you can wire the socket using alternate pins so it doesn't matter which way you put in the xtal

..... >www.allectronics.com) has vy cheap old fashion ft-243 sockets.

.....

Or you could be really authentic and use an octal tube socket. It takes FT-243 crystals perfectly and you can get two crystals in one octal socket so you can switch in your choice.

This was a common practice back in the '50's and '60's when all we had was tubes and FT-243 crystals.

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: kd1jv@juno.com (Steven Weber)
Subject: [3369] HB: spectrum analyzer adaptor
Message-ID: <19961031.201558.7231.1.KD1JV@juno.com>

Just finished building a neat little spectrum analyzer adaptor for my 'scope. It isn't something I need every day, but it sure comes in handy now and again. The board is just 4" x 3". It has an input sensitivity of about 50 uv, has about an 80 dB range and can cover 1 to 85 Mhz. It can be built for under 50 dollars and dosen't need too many hard to get parts.

Anyone want more details? Should I think about putting it together as a kit?

de KD1JV, Steve

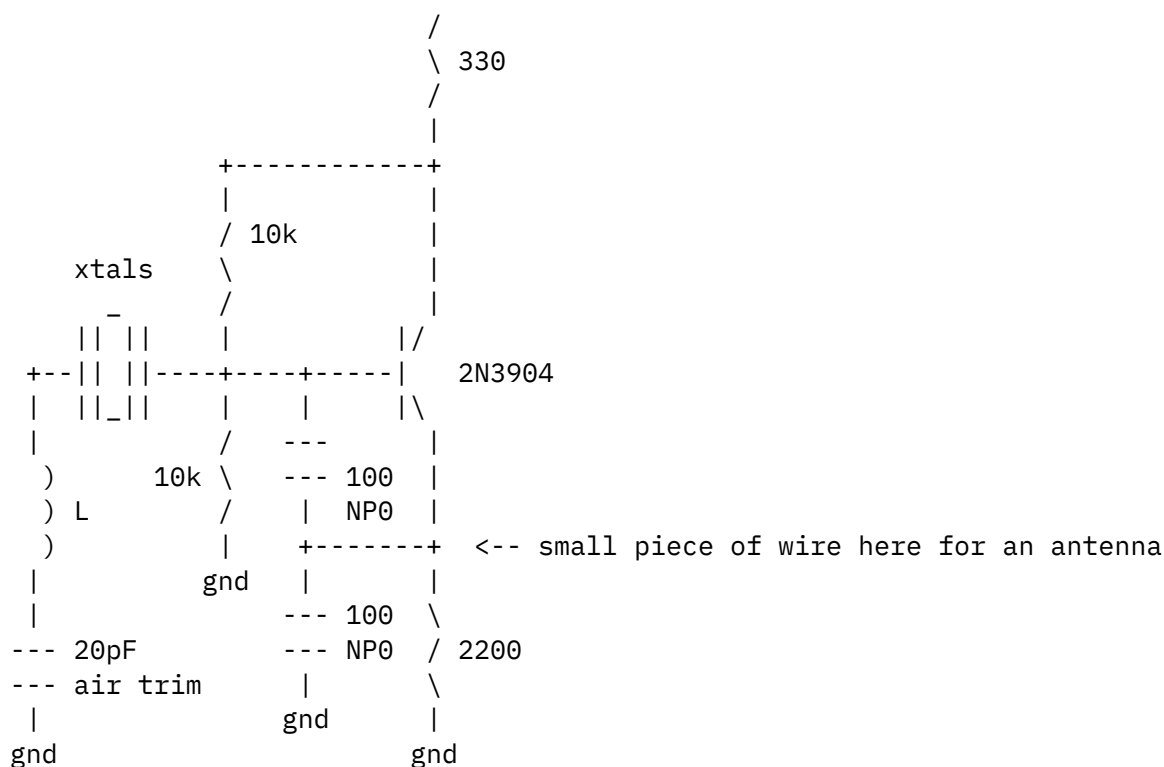
From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: 31-Oct-1996 0700 <randolph@asic.ENET.dec.com>
Subject: [3283] HB: Super VXO again
Message-ID: <9610311249.AA24505@us4rmc.pko.dec.com>

Well folks, 7N3WVM was absolutely not kidding about this technique. I slapped one together on a piece of square-cut-pads copperclad last night. Keep a couple of those around, very handy for this sort of thing.

The circuit was a basic bipolar transistor Colpitts oscillator:

+12V

|



I used 10.0 MHz xtals, as that's what I had around. Unfortunately, my junk box xtal supply doesn't have more than 2 of any one type, so I couldn't test what happens with 3 or more!

With L of 1.2uH (20T on a T37-6 core):				
	1 xtal	10005-10011 KHz	6 KHz range	
	2 xtals	10008-10015	7	
	12uH (scrap inductor pulled	1	10000-10010	10
	from an old TV set)	2	10001-10014	13
	22uH (another TV set job)	1	9991-10009	18
		2	9970-10013	43 (!!)

So there you go. There's a sort of threshold of inductance which you have to get above before you see the dramatic effect.

Drift: The 22uH circuit had noticable drift compared to the BFO on my general-coverage shortwave RX. Very slow and long, not at all bad compared to some LC VFOs I've built. I'll guess 20-30 Hz per minute. The 12uH circuit had virtually no drift over about 10 minutes. The 1.2uH circuit also had long, slow drift. These comparisons were made maybe 30 seconds after removing the soldering iron. Blowing on the circuits caused a small freq change, maybe 20-40 Hz, so they're certainly not immune from temperature effects.

Coming up: Do some real cold-start drift tests. Try to isolate the drift to one

component (likely the L). See how far this technique can be pushed - I'll have to buy some crystals. See if varactor tuning is practical.

```
=====
Tom Randolph  N100Q  NE-QRP 419  QRP-L 87  ARRL      randolph@asic.enet.dec.com
=====
```

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: michael.hopkins.1171@corvus.com (Michael Hopkins)
Subject: [3375] How to feed an end fed wi
Message-ID: <96103123002629079@corvus.com>

GS>From: Gary Schiltz <gss@ahipc.eds.com>
GS>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
GS>Date: Thu, 31 Oct 1996 16:37:49 -0500
GS>Subject: How to feed an end fed wire antenna

GS>As a follow-up to my tree fishing post yesterday, I'd like to ask
GS>a basic question: how do people usually feed end-fed wire antennas?
GS>(Please, no responses of "at the end" :-) I'm sure there is no single
GS>answer, but I'm looking for simple solutions (it's a simple antenna,
GS>after all) for keeping the RF out of the shack.

GS>Thanks in advance,

GS>----

GS>72 es 73 de N8RUY
GS>Gary Schiltz
GS>Bloomfield Hills, MI
GS>QRP-L #561

* SLMR 2.1a *

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Gary Schiltz <gss@ahipc.eds.com>
Subject: [3334] How to feed an end fed wire antenna
Message-ID: <32791C2C.33E4@ahipc.eds.com>

As a follow-up to my tree fishing post yesterday, I'd like to ask
a basic question: how do people usually feed end-fed wire antennas?
(Please, no responses of "at the end" :-) I'm sure there is no single

answer, but I'm looking for simple solutions (it's a simple antenna, after all) for keeping the RF out of the shack.

Thanks in advance,

72 es 73 de N8RUY
Gary Schiltz
Bloomfield Hills, MI
QRP-L #561

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Luke Enriquez <ecscife@lux.latrobe.edu.au>
Subject: [3346] IRF510/511 PA's and Stuff...
Message-ID: <9610312326.AA14733@lux.latrobe.edu.au>

Howdy,

>So that's the basic line up. Can't get much power out of it at all with a 13.8V supply. Going to 28 volts and I can get up to 20 watts out of it.
>At that power level, the PA's get a bit warm, the bias point drifts and
>idle current goes through the roof and that's the end of the QSO for a
>while. Yes, I need a bigger heat sink, even though they are bolted to a
>3" x 5" x 1/8" aluminum plate. Or the bias voltage needs to be reduced
>as the temp goes up. I don't think I would recommend pushing a single
>IRF 511 above 7-8 watts. Above 7 Mhz, the power drops off radicly. Still
>not bad on 30 Mtrs, but less than 1/3 on 20 and nothing on 15.

Good to hear other people experimenting with these devices.
I do wonder if they can be connected in cascade or cascode to overcome the capacitance problem. I remember ealier this using studying cascode and cascade transistors configurations to get better bandwidth out of them, although that was related to cancelling the miller effect capacitance.

Regarding the heating up, well I believe they were originally designed for use in switch mode applications, so they prefer class C. Obvioulsy, Class C means the devices dont get as hot. After all, they are only to-220 packages! When I get the time, I'm going to sit down with pspice and see what I can come up with. The biggest problem is that they dont work too well at 13.8 as you mentioned, which is a bit of a problem.

Regards,
Luke

--

Luke Enriquez VK3DLE "I only cook with Non-violent
3rd Year Electronic Engineering fruit that pulps itself."
Latrobe University, Victoria, Australia.
ecsclfe@lux.latrobe.edu.au

--

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Paul Stroud <aa4xx@amsat.org>
Subject: [3374] KnightLites 80M Net
Message-ID: <327982C4.7903@amsat.org>

Hi Gang,

The 80M Roundtable meet last Sunday night (October 27th) at 0300Z. Welcome to newcomer Margie - N1QLF from Westbrook, CT. Best DX for the evening went to Bill - WB0CLD from St. Charles, MO. The "MightyLite Award" went to Gary - N3GO from Raleigh, NC for his 10 mW check-in.

Speaking of awards, anyone who checks into the net with less than 100 mW receives a colorful award (free!). It's our way of encouraging mW activity. So far, KL Milliwatt awards have been sent to N3GO (10mW), W03B (800 uW), K3TKS (20 mW), and KQ4X (50 mW). N2TNN is trying hard and may be next in line... A picture of the award is on the KL Webpage at the following URL:

<http://www.duke.edu/~djohnson/>

The KnightLites Net meets each Sunday night on 3710 KHz. As an experiment, THE NET WILL BEGIN A HALF HOUR EARLIER FOR THE NEXT FEW WEEKS, AT 0230Z, OR 9:30 PM EST. As the net runs long some nights, this will allow the KnightOwls to get some sleep before traipsing off to work Monday morning. Those wishing to check in at the old time of 0300Z won't miss out, as the net will probably run at least until 0330Z. Newcomers are always welcome. Send at a speed you're comfortable with--fast or slow--and the NCS will match your speed.

The KnightLites are a group of low power enthusiasts who have no dues, membership numbers, officers, or newsletter. We do, however, maintain a membership list and invite all interested hams to become members of our organization. We have two KnightLite mail reflectors "KLQRP" and "KLNET," (sponsored by Duke University) which are maintained by Dave Johnson - WA4NID. Information on the Knightlites Group and info on subscribing to one or both of the mail reflectors may be obtained by accessing the URL listed above.

The noise level was pretty high last Sunday night--about S9+10dB

on the East Coast. Nevertheless, signal levels were good for the most part. Here are the folks who made it in:

AC4QX	Lauren	Lake Gaston,	NC	5W	579	G5RV
WB0CLD	Bill	St. Charles,	MO	5W	439	Half Wave End Fed
N1QQV	Ken	Madison,	CT	5W	579	New Antenna!
K3QIO	Jim	Wilmington,	DE	5W	579	Dipole
N3G0	Gary	Raleigh,	NC	10mW	439	Dipole
		(K3QIO copied Gary 339)				
AA6UL	Ralph	Charlottesville,	VA	1W	439	Dipole
N1RXT	Chuck	Chelmsford,	MA	4W	569	
KF2PH	Nick	Patchogue,	NY	2W	339	Vertical
N4NT0	Tripp	Tarboro,	NC	5W	599	
AA1BK	Steve	Raleigh,	NC	5W	439	Attic Antenna
N1QLF	Margie	Westbrook,	CT		579	
WB4LZQ	Kim	Piedmont,	SC	5W	589	Inv Vee
VE3SP	Ron	Hamilton,	ON	5W	549	Vertical
KI4PZ	Rick	High Point,	NC	5W	559	
AD4ZE	Warren	Cary,	NC	5W	549	Dipole
VE3JC	John	Burlington,	ON	5W	449	
WZ2T	Rick	Duane,	NY	5W	329	
AE4IC	Bob	Greensboro,	NC	5W	559	Big Horiz Loop
WA8LCZ	Byron	Warren,	MI	5W	329	GAP Vertical
KF8EE	Ted	Loveland,	OH	5W	559	End Fed, up 15'
N2TNN	Dean	Somerset,	NJ	2W	549	
AA4XX	Paul	Raleigh,	NC	5W	(NCS)	OCF Dipole, up 60'

One final note: I received a note from one QRP-L member that my last posting to QRP-L ended up being replicated seven times on his server. As far as I know, this was one isolated incident. Please let me know if any of you see this happen on your server, so I can take steps to eliminate the problem.

72,

Paul AA4XX

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: "Claton Cadmus" <aplitech@Spacestar.Net>

Subject: [3373] Minnesota QRPers

Message-ID: <199611010446.WAA11464@Spacestar.Net>

Hello all,

CQ CQ MN CQ CQ MN CQ CQ MN CQ CQ MN CQ CQ MN CQ CQ MN CQ CQ MN

Just a reminder, don't forget to call a QRP friend!

The first meeting of the Minnesota QRP and Home Building Society will be

held;

Date: Saturday, November 2nd 1996
Time: 1:00pm to 3:30pm
Place: Edina Community Library
4701 West 50th Street Edina, MN

This is just east of Hwy. 100 on 50th Street next to the police station.

The agenda will be to setup the organization of the club, meeting schedule, decide on the name of the club and hopefully establish a newsletter, perhaps via email.

There will also be show and tell so bring your creations to share with the others.

So join us for QRP/HomeBuilding talk and refreshments.

Claton Cadmus |73 de KA0GKC
Application Technologies Inc. |ARRL, QRP-ARCI, NorCal
Ph. (612)926-8886 |ARCC, MNQRP&HB Society
Fax (612)926-8545 |ka0gkc@ka0gkc.ampr.org
E-mail cla@spacestar.net |ka0gkc@wb0gdb.#stp.mn.us

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Hidehiko Komachi" <ja9mat@nsknet.or.jp>
Subject: [3284] My Homepage
Message-ID: <199610311257.VAA01201@po.nsknet.or.jp>

Thanks for many reply about my homepage!
I'm very happy and will inform again to QRP/L
when I finish to add more items on it.
I made all replies today (total 12mails sent)
independently.

*** Thanks! 73/72 & GL! , From: Hidehiko KOMACHI as JA9MAT ****
Member of JA-QRP#036 & G-QRP#9128,E-Mail; ja9mat@nsknet.or.jp
Packet Radio; JA9MAT@JA9IHI.28.JNET9.JPN.AS , "Inet-QRP-L"#761
World Wide WebSite; <http://www.nsknet.or.jp/~ja9mat/Index.htm>
-----< end of message >-----

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: pmk@juno.com
Subject: [3281] Need help for club demonstration. Where can we purchase kits?
Message-ID: <19961031.124024.4791.0.PMK@juno.com>

I am doing a demonstration at our next club meeting and I need help where they (and myself) can purchase kits. I have noticed that NORCal have been doing QRP kits for a few years but can I or someone else purchase them ? Any kit manufacture is welcome. That is the hardest part is finding the kits. No one seems to know much besides the local AES. There are many that would build them . I am sure the hardest part is advertizing is to expensive so heres a chance to get some free advertizement to the local club. There are usually about 50+ that show up each month and word of mouth is usually the best advertizement.

Thanks de Patrick KD4OBQ

Orlando Amateur Radio Club

ar

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [3333] Need Manual
Message-ID: <1.5.4.16.19961031153021.0d6f1a7a@destin.nfds.net>

I know we have a number of HeathKit type people here (aka NUTS).

I would like to get a copy of the manual for a Heathkit IM-2400 Frequency Meter I just aquired.

Willing to pay copying fees and postage.

I already checked W7FG and they no got...

Thanks in advance...

72/73

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL
Snail Mail P. O. Box 178
 Shalimar, FL 32579-0178
Grid EM60rk
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
CHECK OUT THE FISTS INTERNATIONAL CW CLUB HOMEPAGE
<http://n9nvv.qrp.com/~fists>
 ^^^^^ That's N 9 N V V

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: jim hale <kj5tf@mctc.com>
Subject: [3312] Need QSL Info
Message-ID: <327912AE.2E08@mctc.com>

I tried my QRP+ SSB in the CQWW test last weekend.
Anyone seen the QSL route for CY0XX , 9J2ST , and FW20I ?

I tried a couple places, no results. Thanks! 72/3'z de Jim

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Pete Rossi <wa3nna@resuba.com>
Subject: [3364] NEW E-MAIL ADDRESS
Message-ID: <199611010240.VAA20657@resuba.com>

After almost 15 years working at
 Burroughs, then ...
 Unisys, then ...
 Paramax, then back to ...
 Unisys, then ... (yes, they changed the name back)
 Loral, and finally ...
 Lockheed Martin,
(all the same company - only the names kept changing) I have decided to move
on to hopefully something better. Friday November 1 is my last day and I
expect my old e-mail address rossi@Paoli.ATM.LMCO.COM to go away shortly
after.

For the immediate future, I will be getting e-mail at wa3nna@resuba.com

Please update your e-mail directories accordingly.

I hope to put in a decent effort in the CW SS this weekend, but with starting a new job on Monday, it is going to be a busy weekend.

If all goes well, I hope to start running some short beacon tests next week.
Film at 11..

73,

Pete Rossi - WA3NNA QRP-L # 459
wa3nna@resuba.com

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: ka7you@juno.com
Subject: [3275] No Fox-but...
Message-ID: <19961031.000410.5431.20.ka7you@juno.com>

Well, I finally did it. I've listened several nights and never heard the Fox, but tonight, I answered a CQ anyway.

I've worked my first CW QSO on 40 meters in five years, and a QRP-QRP one at that! At 0240, I found KC6Y0X in Oceanside, Ca. on about 7.120. Bill was using a vertical, and I was on a 120 foot all band dipole at 60 feet. A 'tuner-upper' got to him when he gave the rig but I copied the words "milater? ??ruck". Military truck ? ?? I didn't get a clarification before he had to QRT because his wife got home, so he wasn't mobile in the military truck!

My rig is the venerable Ten-Tec Argo 515 and a RS DSP-40, with a Johnson Match-Box to feed the ladder line.

Signals were 579 for him and I got a 449 . I'm not complaining!

Still looking for the Fox, I found KI7QV tuning up. I gave him a call, and Jim was in Tuscon , Az. I was his first QSO on a new Yaesu FT-900 (QRO). I missed some of his transmission due to QRM, so I don't know what type of antenna he had, but I got a 529 for RST I and gave him a 579. We cut it short when the qrm wiped out my signal to him.

I am glad to have finally gotten my feet wet on CW again. Now that my feet are already wet, I don't have to worry about BOOTS.

7 3

Rod Johnson KA7YOU NWQRP#120 -- near Seattle, Wa.

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Barry Keating <Barry.P.Keating.1@nd.edu>

Subject: [3285] Novice FOX Report for Wednesday
Message-ID: <v03007800ae9e4e563f8a@[129.74.87.62]>

** Novice Fox Report - Wednesday, October 30th (local date) **

Thanks again to all who listened for the fox and tried with no luck;
I'll get you the next time around. Conditions were much better this
time around - less QRM - but the same number of contacts. The only
interference tonight was from more powerful amateurs blasting out
CQ's.

QSL's will go out tonight.

Hope you are having as much fun as I am!

TIME	STN	NAME	ST	RST	NR
0200	N9DD	Tom	IN	589	32
0228	AA1MY	Seab	CT	559	574
0238	KA3WMJ	Ken	PA	355	355
0258	AE4IC	Bob	NC	449	54
0309	W1UI	Jerry	GA	449	514

Total: 5

Barry Keating

WD4MSM

South Bend, Indiana

MFJ 9040 running 5 watts

G5RV antenna at 30 feet

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Luke Enriquez <ecsclfe@lux.latrobe.edu.au>
Subject: [3362] PCB's and Schematics for 5W Linear Amp (IRF510)
Message-ID: <9611010222.AA11890@lux.latrobe.edu.au>

Gang,

A few people have asked about the IRF510 and using them for a cheap quick amplifier. The best bet is to have a look at the RSGB handbook which uses them in a design by Drew Diamond. The Bias is set class - AB as far as I can tell. It is not efficient, ie : about 200ma idle current.

If you want to play around with a cheap, easy to construct amplifier that won't break your wallet, try the design. The PCB is easy to make. I have copied the design and will mail the PROTEL AUTOTRAX PCB file to anyone who wants it. I will draw up the schematics in ASCII and Protel when time permits.

The AMP will work with a 13.8 Supply, but efficiency is much better when Vdd is greater than 20 volts. I know a lot of experimenters have been turned off building their own equipment due to a fear of blowing up the three legged fuses. Using IRF mosfets, if you do manage to damage the device, you've only lost \$1. This lets you experiment with your own design (say increase power supply voltage and convert to class C) without having to worry about blowing up a good quality expensive RF transistor.

The PCB is easy to make, and everything is mounted and soldered on the top side (surface mount but with conventional components). 5W output for 100mW input up to 7Mhz, and 5W Output up to 10Mhz with 300mW input. Component count is low, 3 ferrite toroids for input and output and supply decoupling. 3 toroids used in a 4 pole pi filter. A few capacitors and resistors.

I'm now experimenting with iron on PCB transfers. I'll let you know how I go. If people want the schematics, please email me and I will draw them up (painfully) in ascii the best I can.

Regards,
Luke

--

Luke Enriquez VK3DLE "I only cook with Non-violent
3rd Year Electronic Engineering fruit that pulps itself."
Latrobe University, Victoria, Australia.
ecsclfe@lux.latrobe.edu.au

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [3345] QSL for FW20I maybe
Message-ID: <2.2.32.19961030091541.006f7470@tir.com>

fw2oi - home call dj2oi

*/ Hank Kohl K8DD k8dd@contesting.com <---- new
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Bruce huyck <bruce@pad-uky.campus.mci.net>
Subject: [3360] Rig for Sale
Message-ID: <MAPI.Id.0016.00727563652e70613737343730303030@MAPI.to.RFC822>

Oak Hills Research W7EL Optimized 40M CW transceiver.
QSK--- 1.5-2 watts out 8:1 vernier dial covering 100 KHZ. Weight 20 oz.
\$70.00

Bruce KJ4ER
502/444-7725

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [3302] Scope help thanks
Message-ID: <v01540b07ae9e8ea999c5@[157.142.56.166]>

Thanks to all for the input on finding the scope manual and its use. I
found a source for the manual at A. G. Tannenbaum's...you might check out
their Web page if you ever need the manual for older Ham gear or Test

equipment:

<http://www.voicenet.com/~k2bn/index.html>.

72/73,
Mike N5JKY

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [3293] Shareware code practice that plays thru sound card?
Message-ID: <Pine.3.89.9610311058.A7338-01000000@w3eax.umd.edu>

I sit in front of a computer all day - seems like a good way to bump up my code speed...

Anyone know of any shareware software that goes thru the sound card?

Wanna share via ftp?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Jack Bryant <Jack.Bryant@math.tamu.edu>
Subject: [3367] SS Challenge
Message-ID: <199611010327.VAA12556@fourier.math.tamu.edu>

Subject: ss challenge

I'm Jack, W5TFB, and I couldn't agree more with the earlier posts about Chuck's antennas being too fancy and high. Problem is I have simple wire antennas that work like gangbusters. Want a rare state? Try VT. I was first to work that varmet tonight.

Well, to sweeten the pie, we are going to throw in a pound of pecans, a jar of peppers which are unique to the area, and a sweet confection which you will surely enjoy.

You can get more info on SS by ftp: try the address ftp.arrl.org, use the username anonymous with pwd your email adx, and follow your nose. It should point to pub/contests, and then you will get a .zip file, ... but now I'm preaching to the choir.

-72, and best of luck in SS

W5TFB

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3359] ss Final Note B4
Message-ID: <199611010206.CAA00961@chuck.dallas.sgi.com>

Gang,

OK, last minute check sheet and last minute help. This is the last post until after SS.

First, thanks to all that are coming after Jack and I in a friendly sort of competition. And here is hoping that others will at least get on long enough to get 100 Q's and send in the log and the \$5 to get the nice looking pin. I got mine last year.

Depending upon your antenna situation and bands you work you should be able to do 100 Q's in about 5 hours or so. IMHO. If you can do 20wpm you can do it. Slower speeds may take a little longer. This contest will not work for attic antennas and QRP levels. Too much competition.

There is the question often raised and some advice given by others that you should wait until the last day (Sunday) and then wade in and get the contacts. I personally don't like that idea. There are two main reasons for my philosophy.

1. There are more people on at the beginning. They are rusty. So are we all. Jump in fresh and all bright eyed and bushy tailed.
2. After about 8 or 10 hours you'll see the average speed go up by 10 or more wpm. You'll be further behind the curve if you wait. Also there is the slow freqs 3665-3705KHz, 7090-7130, 21090-21130, and 28090-28130KHz.

And if you start early you just might like it and stay longer. :-)

Now I'm logged in from the house, don't have the archives on the system here, so I can't quote the individual from Denver that is going for 700 Q's. Now that is ambitious. Probably K0FRP again. If you do 700, you'll be in the top five. And if you don't find a partner, we'll just go one on one. Good luck OM.

Let me give you some idea of what is involved. From the May 1996 issue of QST, the top 10 QRP scores are:

Call	Score	QSOs	Mult	HRs	Class	Section
K2ZJ	123,880	815	76	24	Q	WNY
KD8G	112,500	750	75	24	Q	WVA
K0FRP	100,740	690	73	24	Q	CO
K2P0/7	96,944	664	73	24	Q	ID
K9AY	96,644	653	74	24	Q	CO
W1MJ	95,046	651	73	24	Q	WMA
K3TM	94,424	638	74	24	Q	MD
AD8J	89,836	607	74	24	Q	WPA
KI4UZ	85,994	589	73	24	Q	TN
WA0RPI	85,820	613	70	24	Q	IA

In fact, now that I look at the scores for all the Q class stations it reads like the who's who of QRP-L. Didn't know we had that many contestors in the group and we are talking about a large number of guys that did the whole 24 hours.

And my little 11 hours at 0.95W was pale by comparison.

SS is again, not for the faint of heart.

At 2000UTC, one hour before sweepstakes let's all go up to 10m, 28.060MHz and 15m, 21.060MHz, and if those don't work go to 20m, 14.060MHz and ping the ionosphere and see which bands are open. You're going to be sitting at the desk anyway wondering if everything is gonna work anyway. :-)

OK, boys and girls. Get your rest 'cuz you are gonna need it. This is about the only contest where you won't be bothered by digital signals on 14.060. :-) ;-) You'll have more serious problems.

And one more hint and this is my little secret, but don't post it on any other reflectors, please. You saw it here first.

Take a 8x11 sheet of paper. Draw lines long ways for 80m, 40m, 20m, 15m, and 10m. Use the computer if you gotta. Label frequencies from low end to 100KHz. with tick marks and all. Leave room to write above each line. Now lets say you hear K5FO at 14.035 at 0555UTC and you really gotta have NTX, since it is a rare one or you need the multiplier. But after 2 or 3 calls you can't work him due to the pileup. Move on but before you do make a mark on the 20m line with a dot, K5FO above the dot and the time. Come back and visit later to see if K5FO is still there if you don't find another NTX. You just may get all 78 sections.

OH, if you are running CT, go edit the section file and add NNY a new section this year. You'll be in trouble if you don't. If I remember CT will not let you enter a bad section. I'm going to practice with CT Friday night to refresh the old brain and check the keying transistor and for shorts

Exchange is:

NR n Q your_call xx your_section

where n starts at 1 and increments for each contact
xx last two digits of the first year you were licensed
(not the year you got the call, like 96 for new
vanity calls....)

Saturday 2100UTC 4pmEST 3pmCST 2pmMST 1pmPST until
Monday 0300UTC 10pm 9pm 8pm 7pm Sunday night

80m contacts do count for EMPS. :-)

Good luck and I hope to work you all.
: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QS0s=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: majewski@erim.org (Ron Majewski)
Subject: [3316] SS TX Challenge
Message-ID: <9610311940.AA13291@spsd630a.erim.org>

To Team Texas (Chuck and Jack) and Team North Carolina (Warren and Bob):

The fact that the frost is on our pumpkins up here in Michigan doesn't mean that we don't have a fire in our bellies when it comes to QRP SS.

We simply can't let a challenge like yours go unanswered, so Bill (WA8CDU) and I (WB8RUQ) are picking up your SS gauntlet as Team Michigan.

While Chuck is waiting for his monster yagis to rotate around to pick up that new mult, Team Michigan -- with their broad-patterned antennas -- will capitalize on the dead ether and snatch the points away from him, leaving only a dull ringing in his headphones. :)

And to show just how serious we Michiganders are, I'm willing to "wager" two jars of my home-made raspberry jam, grown without chemicals in the RF-charged soil beneath my antennas. Do the other teams have the confidence to make a similar wager? :)

Good luck to all and see you in the pileups.

72/3,

Ron (wb8ruq) and Bill (wa8cdu).

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [3296] SWR protection schemes? Finals
Message-ID: <3278cbe0.pandora@pandora.lugs.org.sg>

Hi Gang,

In one of the recent posts, I recall reading that the zener diode does not really protect the finals of the transistor through it's zener action because it is too slow to respond. I'd like to know if this is true.

If so, what would be a viable way to introduce some protection against SWR mismatches for the finals of the amplifier? Thanks.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      | danwee@singnet.com.sg    |
```

| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [3310] Timewave DSP 59+ For Sale
Message-ID: <199610311758.JAA21920@dfw-ix6.ix.netcom.com>

Greetings,

I have for sale in like-new condition TIMEWAVE DSP 59+ with the most recent version (V3.04) firmware. Price: \$210 OBO, complete with manual and original box, I'll even ship within continental U.S. New unit sells for \$259.95 at HRO.

I'm selling this unit because I've just purchased the new Timewave 599ZX. I have used this unit extensively with my TS850 and TAC1...I would not operate without it. I've compared this unit and the 599ZX to the JPS NIR12 and the MFJ ... no comparison! The Timewave line was developed with the CW OP in mind ... you have over 300 combinations of filtering as well as noise reduction and marker-tone for easy and accurate zero-beating!

This unit, used with or without internal I.F. filters will greatly improve CW reception ... however, if used along with internal filters, you will be amazed ... promise!

For more technical info, go to the Timewave Website:
<http://www.timewave.com>

Only interested purchasers may contact me at cjsterl@ix.netcom.com or via landline at 202.537.5818 after 2300 UTC.

Thanks,
Craig Sterling, AA3MD
Washington, D.C.

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: BWHITTEM@mailgw.sanders.lockheed.com
Subject: [3289] tnx fer dry info
Message-ID: <278b4120@mailgw.sanders.lockheed.com>

thanks for the info on dry cw a@337khz

a few sent me the info.
its right in town.
barry
wb1edi

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: BParkes@aol.com
Subject: [3358] Tree Fishing
Message-ID: <961031205159_1214614123@emout20.mail.aol.com>

Howdy, I have been following all the discussions on tree fishing and have not heard of the way I do it. There are popping floats used for salt water fishing that have a foam float that pops when you pull it through the water. Has a wire running through it with a lead sinker and you can get them in different sizes. The lead helps you cast out past the breakers in the surf. Hook the float on the end of your fishing line and cast over the tree of your dreams. Even if it bounces off the roof of your neighbors house they most likely won't notice it since the foam doesn't make much noise when it hits. Since the float is bullet shaped, it will pass through most tree limbs without hanging up. It is best to do your tree fishing when your XYL is elsewhere, mine almost gave the game away by asking (loudly) "Why are you bouncing that float off the neighbors house?". Have not tried it with a slingshot, maybe next time.

73 Bruce KA2ZGW

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Jeff Grudin <grudin@pacific.vdbs.com>
Subject: [3299] UTC to IA Time/Date
Message-ID: <3278D7F5.3787@pacific.vdbs.com>

Mark,
I tried doing the conversion but I still can't figure it. Today is the 31st in California and the kids don't come until tonite.

Did they change the date of Halloween in IA. Boy I thought only in California.

Obligatory QRP: Were talking little kids (under 100#) here not the QRO ham ops (over 100#).

--

73 de Jeff AC6KW

grudin@vdbs.com

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [3294] Vanity Calls
Message-ID: <199610311533.IAA14388@primenet.com>

I checked the fcc FTP site, and found that the computer was back up. Will download the files daily and check them out.

If you _don't_ have FTP capability and would like to find out if you're on the daily list, e-mail me direct with your name (as on your license app) and address (in case of dupe names) and I will let you know when you show up in the database.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [3272] W6RO - The Queen
Message-ID: <19961030.224429.7695.6.kb0rol@juno.com>

Gang,

Thanks for the replies, I almost didn't send out a card. Looking back at my notes (between the noise) I copied Q__EEN ____Y IN _ONG BE__H, CA. It didn't make any sense (except for the Long Beach Part) but now it does.

This hobby is more fun than I thought it could be - and its ALL QRP on a rig I built with my own two hands on an antenna I cut and hung and tuned. Its more fun than my 40 foot header I did on El Cap.

Thanks

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Sterling <slombard@primenet.com>
Subject: [3335] What is an SST transmitter.
Message-ID: <Pine.BSI.3.95.961031145440.24462C-100000@usr07.primenet.com>

<snip>

There will be no more. Next NorCal club project will be the SST transceiver kit, which Wayne, N6KR, is designing at this time. Thanks to all who made the 49'er a huge success for the club. jim, WA6GER.

<snip>

What exactly is an SST transmitter? I'm not sure I've heard about them.

-Sterling W. Lombard (KB7JTZ)
<http://www.primenet.com/~slombard>

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: PDouglas12@aol.com
Subject: [3370] White Mountain progress: Grp 6/7
Message-ID: <961031225705_554050865@emout02.mail.aol.com>

Hi Gang,

Well, group six is solid. The 3.58 carrier is coming out of the driver stage with authority. I have been listening to 75m phone on this little rig, and it really is a kick. Aside from the bigot nets, there is a lot of good hamming down there. I am looking forward to finishing up the last group, group 7 tomorrow night and proceeding with checkout Saturday morning. Then I will do some metal mangling to get the radio inside some raw metal to allow it to make a few contacts. I will report at that point.

Meantime, I have to study the schematics to figure out the pickup points for freq and s-meter (AGC) for the KC2 which has already arrived. No parts problems holding up my assembly line! Now, how am I going to do all this and work SS? Oh well, I will do a little of each, I guess. One must be well rounded. And, you ask, how am I planning to get away with hamming the whole weekend? Hah! I have sent the XYL to Canyon Ranch! She thinks it was a present for her.

QRP forever,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Sterling <slombard@primenet.com>
Subject: [3329] Yay!!! I'll soon be on 30Meters!
Message-ID: <Pine.BSI.3.95.961031134406.17141C-100000@usr07.primenet.com>

My final parts for the 30m xceiver out of "Qrp Classics" are on their way!
I can hardly wait! You'll soon hear KB7JTZ on 30! I'm gonna put that
super vxo to test. Wish me luck! :)

-Sterling W. Lombard (KB7JTZ)
<http://www.primenet.com/~slombard>

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [3315] Zener Diode change?
Message-ID: <961031193212_70731.722_EHM57-1@CompuServe.COM>

Howdy,

I broke a glass zener diode while constructing a kit. Radio Shack is the only
local store. They do not have the identical diode number but they have some
which are close:

The broken diode is 1N5227 which is a 3.6 volt zener diode.
Radio Shack stocks 1N226B which is 3.3 volt zener diode
and also they stock 1N228B which is a 3.9 volt zener diode

The diode in series with a 470 ohm resistor and also in series with 4 AA
cells (6 volt) battery supply. The diode and resistor regulates and drops the
6 volts down to 3.6 volts to power a HT8950 integrated circuit, the other
chips all use the full 6 volts.

Do I have to take a week to try and mailorder from Mouser the correct 3.6
volt zener, or can I safely try one of the Radio Shack diodes?

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: qrp-1@fido261.qis.net (qrp-1)

Subject: [3273] [3073] Loop Antenna in Attic
Message-ID: <324_9610310325@fido261.qis.net>

Dan Halbert wrote in a message to All:

DH> From: Dan Halbert <halbert@BBN.COM>
DH> Subject: Re: [3073] Loop Antenna in Attic

DH> I have taken to wearing my bicycle helmet while working in the
DH> attic, something I started doing while spending hours putting down
DH> new insulation. But I still bash my back on some low cross-braces.
DH> Maybe I need to wear an umpire's vest on my back.

Or....get a very large turtle shell...and of course with the correct personal
protection, and some math work...the 'shell vest' could double as a parabolic,
though somewhat mis-shappen) reflector.

Thom LaCosta
K3HRN
thom@fido261.qis.net
Our Business is Business

--
|Fidonet: qrp-1 1:261/1352
|Internet: qrp-1@fido261.qis.net
|Standard disclaimer: Take a Naugha to Lunch today YOU pay the bill!

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: ka7you@juno.com
Subject: [3269] Re: 49'er Kits sold out
Message-ID: <19961030.222511.5431.8.ka7you@juno.com>

I say 'nuts' (mints?) too. I just acquired, and emptied, my Altoids
tin!

He who hesitates.....

7 3

Rod Johnson KA7YOU

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [3291] Re: 49'er Kits sold out
Message-ID: <1.5.4.16.19961031090342.2f473b3a@206.158.2.1>

I have a 49'er which I have built but never used. The RX has been tested but have never attempted transmitting with it. Will sell for \$25 and ship in a padded mailer 1st Class snail.

72 de Allen Jones, K9DZE
ajones@adsnet.com

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [3319] Re: 49's gone
Message-ID: <Pine.SUN.3.91.961031124751.25520F-100000@kitsune.swcp.com>

On Wed, 30 Oct 1996, Bowes, Fr. Bruce wrote:

> I was hoping for a Christmas present.
> Fr Bowes
>
>

Your not alone Fr, that was going to be my Christmas present too!! Guess you and I will have to check out that new SST!!! Wonder how much that lil jewel will set us back??? 72 Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [3280] Re: An 80-Meter "Utility" Antenna
Message-ID: <Pine.SOL.3.94.961031072207.28079F-100000@utkux4.utcc.utk.edu>

Why not try to trim the 44' section to resoance on 80. If SAI used sereis capacitors as a matcher, then the antenna is likely long (inductive). Why not cut it long and trim to see what happens to SWR--without a tuner in the line. It might not be easy to hit 24' exactly--use what vertical distance you have. You can even make this antenna out of TV twinlead, shorting the ends out to make one fat wire for greater bandwidth on 80. Reason I know it work is because that is what I used for several years in Georgia in the late 60s. Counterpoise is nice, but a good ground rod is first, and then such radials as you easily put in place. Since the horizontal section contributes to the radiation, counterpoise/radial is not quite as necessary as with a pure vertical, but it will help. Hence, this is an antenna you can put up in stages, depending on the panic conditions of pre-contest preparations. By the way, mine was an ATU (straight thru) at the window sill, so the antenna starter about 5' off the ground, with a ground wire to the rod. Had no difficulties with the GSN and 4RN nets with it, and used the tuner to load it on 40.

Hope this is useful.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: n5zgt@swcp.com (Brian Mileschosky)
Subject: [3352] Re: Buy hose cheap 10M Rigs Now
Message-ID: <199611010056.RAA20609@kitsune.swcp.com>

> So any of you new-comers (this is Cycle 5 coming
> up for me ughhh!) might start listening to those
> swap nets, in between Fox chasing of course, for
> some of these 10M bargains. The WWW is another
> place to browse.
>

Hello Everybody,

Speaking of swapnets, I run across them by luck every once in a while.
Can somebody please pass along some frequencies and times for them on HF?
Thanks!

72,

Brian, N5ZGT

Boy Scouts of America	Amateur Radio - N5ZGT
Eagle Scout (ALMOST!)	ARRL QRP: NorCal# 1700 QRP-L# 580
JASM - Troop 41	Author of Worldradio's "Youth Forum" Column
Albuquerque, N.M.	Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA
O.A. Lodge 66 <-W-W-W-<<	Internet: n5zgt@swcp.com

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: mbarnes@islandnet.com (Mary Barnes)
Subject: [3326] Re: Computers and Ham Radio
Message-ID: <v01540b00ae9e94ea270f@[198.53.172.24]>

In [3118] Kevin Muenzler <muenzlerk@uthscsa.edu> wrote:

>Well, most hams have a bit of engineer blood in them, and...

>Ego-wise, two things are important to engineers:

> * How smart they are.

> * How many cool devices they own.

>To the engineer, all matter in the universe can be placed
>into one of two categories:

>(1) things that need to be fixed, and

>(2) things that will need to be fixed after you've had a
> few minutes to play with them.

>Besides, if it ain't broke then it doesn't have enough
>features yet!

>Kevin, WB5RUE

In the event that some of the readers of this list haven't read the source for these quotes, it is:

Scott Adams--"The Dilbert Principle" which is published by Harper. The ISBN is 0-887300787-6.

Thoughtful and a lot of fun. Anyone who has ever worked for an organization will find it very much to the point.

Bill VE7MEW

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: d.nordquest@juno.com

Subject: [3341] Re: Crystal Heating

Message-ID: <19961031.174634.4487.1.d.nordquest@juno.com>

>From Matthys' standard work on crystal oscillators: "The series resistance R_s of a typical crystal of any type of cut varies from about 10 ohms at 20 MHz, to a few hundred ohms at 1 MHz, up to a few thousand ohms at 100 kHz, and up to 200,000 ohms at 1 kHz."

Also: "The Pierce stands out on almost every count. It has good waveforms, a frequency that is relatively independent of power supply and temperature changes, very good short-term frequency stability, high output voltage, low crystal dissipation, low cost, and it is usable at

any frequency from the highest to the lowest."

Is it the best for small crystals then?

Dave KE9ED

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: PChristensen@Continental.com

Subject: [3324] RE: Crystals

Message-ID:

<c=US%a=_%p=Continental%l=SEEXCH01-961031203351Z-9196@neexch01.continental.com>

>>The last time I called (about a year ago) Mrs. Peterson was still in
>business and making crystals to order - her pricing was not as good as
>>>C-W but compared to what some are asking now \$7 to 8 is not a bad >price.
>>As I recall from Peterson's little data sheet crystals in FT-243,
>>HC-6, etc are (were) available.

I believe Peterson is still making crystals to order, only they no longer carry FT-243 holders.

About six months ago, I placed an order for fifty FT-243 crystals through CW Crystals. I'm glad I did because of the recent and unfortunate news of their closing after 63 years in business.

As far as I know, JAN crystals (1-800-JAN-XTAL) is now the only provider of FT-243 crystals. Price according to my last catalog is \$25.00 each. Does anyone know of any others?

-Paul, N9AZ

>
>

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)

Subject: [3328] RE: Crystals

Message-ID: <v01540b09ae9ec0c96233@[157.142.56.166]>

>>>The last time I called (about a year ago) Mrs. Peterson was still in
>>business and making crystals to order - her pricing was not as good as
>>>>C-W but compared to what some are asking now \$7 to 8 is not a bad >price.

>As far as I know, JAN crystals (1-800-JAN-XTAL) is now the only provider
>of FT-243 crystals. Price according to my last catalog is \$25.00 each.

>Does anyone know of any others?

>

>-Paul, N9AZ

>

I wonder if they would consider giving us a discount for a group buy?

Mike N5JKY

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)

Subject: [3331] RE: Crystals

Message-ID: <v01540b0aae9ec29dd067@[157.142.56.166]>

>I wonder if they would consider giving us a discount for a group buy?

>

>Mike N5JKY

So, as soon as I sent this, I said, so pick up the phone, dummy, and find out.

For FT243: 1 Xtal - \$25.00

10 Xtals - \$23.10 (all same frequency)

25 Xtals - \$21.45 (ditto)

However, I found out that the HC17 style Xtal is equivalent to HC6's but has the same pin spacing as the FT243 (price range: \$11 - \$15, depending on specs; same sort of discounts available). (Are these HC17 mounts OK for tube rigs?)

So what do we want to do? If there is enough interest I would be willing to coordinate the order (he said with fear and trembling).

Mike N5JKY

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: PChristensen@Continental.com

Subject: [3332] RE: Crystals

Message-ID:

<c=US%a=_%p=Continental%1=SEEXCH01-961031211533Z-9250@neexch01.continental.com>

>>So what do we want to do? If there is enough interest I would be willing
>>to coordinate the order (he said with fear and trembling).

>
>>Mike N5JKY

What we need is for someone to pick up the torch and carry on with the
legacy set forth by CW Crystals, Inc. Anyone interested in starting
their own crystal business? There's no substitute for HonestToGod
FT-243 holders!

>-Paul
>
>
>
>
>

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [3349] Re: Crystals, 40-9er, & QRPP
Message-ID: <Pine.BSI.3.93.961031194958.5893A-100000@u1.abs.net>

Yep, Sure can.
Please send me the mailing address and I will dig out ca couple
of them for you. I might remind you that it may be a problem using
them with tthe Tube ttype Osc. Ckt due to the amount of xtal current.
Some one on list mentioned that. I have never tryed it so I can't say
pro or con. It mightt be interesting to measure the xtal current with
a FT-243 ROCK in place first. I will send you one with the rocks intact.
I can't say what freq it will be, I have lots of military surplus FT-243
but not in Ham bands. The few Ham Band ones that I have were purchased
(\$\$) from CW Crystals, Unfrtunately he has gone out of business since his
wife passed away. I think he is aboout 80 now. Had a crazy Idea, wonder
what would happen if you parallel a pair of HC-18 rocks? Might be a good
question for the QRP-1 brain trust. Oh yes, Sockets for FT-243 are real
hard to come by these days. You can use an Octal Tube Socket for Two of
them. I have als broken old sockets and made new ones remounting the pins
in bakelite or otther plastic drilled out. I have also made sockets using
PC interconnect plugs in PC-7 Epoxy. I have been known to do some strange
stuff in recycling. :^)
more later..

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net

On Wed, 30 Oct 1996, Steve Bornstein wrote:

> Hello George,
>
> I was one of the folks looking for FT-243 xtals. Yes, I am a member of NORCAL
> and have ordered xtals from Doug for the project. I like your idea about
> putting the smaller xtals in 243 cases. Good thinking. Could I talk you into
> parting with two of the cases?
>
> 73/72 Steve K8IDN QRP-L #331 GQRP, NORCAL, MIQRP, AMSAT, ARRL, FISTS ARCI
>
>

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "duane" <duane@flinet.com>
Subject: [3271] Re: early Halloween contact
Message-ID: <199610310804.DAA14803@shell.flinet.com>

heres a story and it's true too....Eric wd4kpg had purchased a used memory keyer at a ham fest in his local area but this story started long before his purchase it seems that he had a ham friend he used to talk to on 80 meters cw but the ham friend had become a silent key (past away)...approx a year later wd4kpg (eric) was at a ham fest and bought a memory keyer. he took it home set it up. started to use it when he found out the memory in the keyer was still prograded with the org. owners call, it was wd4kpg's friends callsign, it sent out the call in code of the man who had died a year before, Eric's friend on 80 meters who he had never met in person.

Duane AB4BE

<http://www.flinet.com/~duane>

duane@flinet.com

ab4be@amsat.org

> From: Steve Miller <kg7pv@teleport.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: early Halloween contact
> Date: Thursday, October 31, 1996 12:08 AM
>
> Was deep in cw tonight working KK7N Mike on 40 meters. Had the Yaesu
phones
> on (full over the ear, very quiet) when a hand suddenly appeared in front
of
> my face! I jumped, good thing I was copying not sending, and turned to
see

> the xyl trying to get my attention. I didn't even know she was in the room.
> Whew! Thought Halloween was a night early. When I told Mike about it on
> the next go around he cracked up - his xyl has done it to him too. So, just
> for fun, any other spooky qso stories since its Halloween time? 73 all.
> Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230
> Norcal 40A es Oak Hills Spirit II es dipole
>
>
>

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: JCoote@aol.com
Subject: [3361] Re: Field Strength Meter
Message-ID: <961031211849_1248174927@emout15.mail.aol.com>

In a message dated 96-10-30 21:22:23 EST, launerb@crl.com (William H. Launer) writes:

<< This past summer, I bought a Pace 5403A SWR/Wattmeter at a local hamfest for \$5. It's a stripline unit built for the cb trade, and has 10 Watt and 100 Watt ranges, just right for qrp use. I found it also functions as a relative field strength meter, with sensitivity controlled by a potentiometer. I simply put a 10 inch length of #14 wire on its output as a pickup antenna.
I place the unit near my end-fed wire, and use it to peak up the tuning of my SB-401 at qrp power levels.
>>

Bill & group, an FSM may not always give an accurate (or relative) indication of what's going on with an endfed or other HF antennas... the antenna may have a high voltage bump on (f'r instance) 3560 KHz and there may be a high FSM reading in the shack.. on another freq the antenna may be at a current node with the FSM nearby.

I've built FSMs around used 10 to 50 uA (microamp) meters. The sense antenna is any old whip (my fancy box uses BNC connectors) connected to a pair of RF diodes, in voltage doubler config. A 100 k pot controls meter sensitivity. At full sense a 4 watt handheld 8 feet away blows the meter away, a cordless phone or wireless mike toy at 1 foot will cause some deflection. All for a few bucks.

73, Jay
WB6AAM

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [3321] Re: FOX all nite
Message-ID: <199610312011.PAA04287@mh004.infi.net>

Seab,

I'm surprised at you! *QR0*? ptoooeyyy!!

At 04:41 AM 10/31/96 +0000, you wrote:

>I had to QR0 in order to make a few other contacts, -very noisy.

No, you didn't. I heard you. In fact, it was your signal that enabled me to zero in on the Fox! I got him after you, and almost gave you a call. (you were 559 in Greensboro) -- but decided you probably left the area.

CUL,
Bob Kellogg, AE4IC
Probably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>
Subject: [3343] Re: FOX all nite
Message-ID: <19961031230721.AAB15407@LOCALNAME>

At 08:11 PM 10/31/96 +0000, you wrote:

>Seab,

>

>I'm surprised at you! *QR0*? ptoooeyyy!!

>

>At 04:41 AM 10/31/96 +0000, you wrote:

>

>>I had to QR0 in order to make a few other contacts, -very noisy.

>

>No, you didn't. I heard you. In fact, it was your signal that enabled me
>to zero in on the Fox! I got him after you, and almost gave you a call.
>(you were 559 in Greensboro) -- but decided you probably left the area.

>

OK OK OK.... i'm the last to admit i'm not a purist...
i'm no good... a prideful weakie... step on cracks...
-but... there is something awfully nice about a clean

5/8/9 at 18-20wpm out of the Falklands that tempts me....
=s=Seabury "Seab" Lyon AA1MY
44 Codfish Hill Road
Bethel, CT, 06801, USA

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [3347] Re: Fox Schedule ?
Message-ID: <199610312330.RAA20748@multi2.pic.net>

Rod --

The standard fox schedule was published once at the beginning of the season. It is always available for download from the QRP-L web page. These foxes are near 7.040 MHz, and there are two scheduled each week. Usually, these foxes send a reminder e-mail to the list, which you should be getting as a subscriber, a few days before they are scheduled to appear. In addition, there is a small group of novice/technician foxes (abbreviated N/T fox) who set their own schedules. The N/T foxes are usually found around 7.112 or nearby. They send an e-mail to the list announcing when they will appear and where. The N/T foxes are sort of extracurricular (see the complete rules for details, also on the QRP-L web page). They are kind of a trial-by-fire for novices and tech foxes, and a guaranteed upgrade path. If a N/T fox picks a day which coincides with a regularly scheduled fox, yes, there will be two foxes that evening (double your pleasure, double your fun). If you subscribe to and read the list, you are getting all the info as it happens. Postings that refer to the fox hunt have a subject line prefaced with "FOX:"

Join in. It's great fun!

Mike K1MG

> I am also confused about where and who to look for. It seems that there
> are sometimes two foxes at the same time. Is that the case? Or am I
> mis-understanding the posts. ...
> Is there a list that my address can be put on, that will ensure I get the
> latest schedules and updates for the Fox activities, without tying up
> this venue.
>
> Thanks,
> Rod Johnson KA7YOU NWQRP#120

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [3297] Re: Fox tonight!
Message-ID: <199610311602.JAA21669@primenet.com>

Gang,

Ok, here's our chance to pick up Vermont for
Qrp WAS!
Remember Tom, you can't quit until you work
NQ7K..
<subliminal message>N-Q-7-K<subliminal message>
:-)

Looking for the treat,

Mike
NQ7K

> From: Tom Cooper <cooper@gmpvt.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Fox tonight!
> Date: Thursday, October 31, 1996 8:57 AM
>
> Happy Halloween, QRPers!
>
> I'll be the 40M FOX tonight 2100 to 2300 EST (0200 to 0400Z), ~7.038.
>
> For those of you who succeed and would like QSL treats, my address is
now:
>
> Tom Cooper
> 143 Spruce Street
> Burlington, VT 05401
>
> If you don't get through on the first call, have another candy bar and
try
> again!
>
> WA1GUV
>

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: NZ8J <timcook@erinet.com>

Subject: [3355] Re: FS: KR1-A Ten Tec Paddles(SOLD)
Message-ID: <32794F8F.6707@erinet.com>

NZ8J wrote:

>
> Like new, not a mark or scratch Ten Tec KR1-A Iambic Paddles. Matches
> the 509 and early Triton 4 series as far as color. Collector quality.
> Same mechanically as the KR-50 keyer. Magnetically controlled tension,
> over ride switch, complete with original box,packing,paperwork and
> accessory pack that came with it when new. (rca plugs and allen wrench).
> \$50 shipped. email for more info
> Tim
> NZ8J

Thanks to all paddles sold in 9 mins...

Tim

NZ8J

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: SMohan@tele-tv.com (Sam Mohan)
Subject: [3305] Re: FT-243 and HC-18/25 current rating
Message-ID: <278E28B0.1755@tele-tv.com>

On 30 Oct 1996 15:47:15 PST WB2VU0 said,

"An HC-18/25 mount xtal is usually rated for 2 mA MAX. The typical tube oscillator will pull 10 mA or more thru the xtal. At \$4.00, [if U plug in a HC-18 or HC-25 in place of FT-243 in the tube rig] how many rocks do U want to cook in your Hollow-state rig?"

So can anybody suggest a good way to safegaurd the HC-18 or HC-25 xtal in a tube-rig? Sticking in a #49 lamp may not be enough as 2 mA is quite low. Any ideas?

72 Sam N3UTM
SMohan@Tele-TV.com

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [3325] Re: FT-243 and HC-18/25 current rating
Message-ID: <Roam.3.0.1.846792431.10702.myers@bigboy>

> On 30 Oct 1996 15:47:15 PST WB2VU0 said,
>

> "An HC-18/25 mount xtal is usually rated for 2 mA MAX. The typical tube
>
> oscillator will pull 10 mA or more thru the xtal. At \$4.00, [if U plug
> in a
> HC-18 or HC-25 in place of FT-243 in the tube rig] how many rocks do U
> want
> to cook in your Hollow-state rig?"
>
> So can anybody suggest a good way to safegaurd the HC-18 or HC-25 xtal in a
> tube-rig? Sticking in a #49 lamp may not be enough as 2 mA is quite low. Any
> ideas?

Well, the problem is with the total crystal current. The crystal current causes heating of the crystal due to I^2R , with the R being the series resistance of the crystal (around 10 to 20 ohms, according to Hayward). You can reduce the crystal current by inserting a series R, but this (a) decreases the crystal Q and (b) may make it harder to start the oscillator. You can also reduce the total feedback by changing the oscillator circuit (depends on the circuit).

Decreasing the feedback has the drawback that the oscillator may have trouble starting, inserting a series R reduces Q which may increase the phase noise of the transmitted signal. I suspect the increase in phase noise isn't a problem in practice, though the oscillator may have trouble starting if the R is too big.

Alternatively, you can try building a small solid state oscillator that plugs into the crystal socket of the tube gear, depending on the type of tube oscillator.

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: David Adams <adamsclan@netgate.net>
Subject: [3309] Re: FT-243 crystals
Message-ID: <3278E883.2537@netgate.net>

Actually with my two stints as fox, enough folks know what I can do with a straight key...for the health and sanity of the qrp world, I'm iambic now!

73 de dave, n9uxu

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Joe Gervais <vole@primenet.com>
Subject: [3311] Re: HB: Super VX0
Message-ID: <199610311805.LAA00996@primenet.com>

Howdy All,

Tom (N100Q) wrote:

>
> Well folks, 7N3WVM was absolutely not kidding about this technique. I
> slapped one together on a piece of square-cut-pads copperclad last night.
> ...
> The circuit was a basic bipolar transistor Colpitts oscillator:

Please folks, keep pursuing this. Thanks to 7N3WVM for brining it up! This little beast fascinates me but I'm a few months away from having the parts/time/place to experiment with it. Would like to find out if I can make it more stable than a typical LC VFO. If so, it may find a place in my first scratch HB xcvr project. *drool*

Thanks to Tom for the initial test data. Don't know why this is catching my eye, but I can't seem to get it off my mind. Guess that means I have no choice but to pursue it. :-)

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [3307] Re: HB: Super VX0 again
Message-ID: <Roam.3.0.1.846783825.14064.myers@bigboy>

Tom wrote:

> With L of 1.2uH (20T on a T37-6 core): 1 xtal 10005-10011 KHz 6 KHz range
> 2 xtals 10008-10015 7
>
> 12uH (scrap inductor pulled 1 10000-10010 10
> from an old TV set) 2 10001-10014 13
>
> 22uH (another TV set job) 1 9991-10009 18
> 2 9970-10013 43 (!!)
>
> So there you go. There's a sort of threshold of inductance which you have to

> get above before you see the dramatic effect.
>
> Drift: The 22uH circuit had noticable drift compared to the BFO on my
> general-coverage shortwave RX. Very slow and long, not at all bad compared to
> some LC VFOs I've built. I'll guess 20-30 Hz per minute. The 12uH circuit had
> virtually no drift over about 10 minutes. The 1.2uH circuit also had long,
> slow drift. These comparisons were made maybe 30 seconds after removing the
> soldering iron. Blowing on the circuits caused a small freq change, maybe
> 20-40 Hz, so they're certainly not immune from temperature effects.

There is a danger in using too much inductance to pull the rock that the oscillator will stop being controlled by the crystal and just be an LC oscillator, with a wider tuning range and higher drift.

Also note that most folks (me included) wait at least a few hours after soldering an oscillator circuit before making any kind of drift measurements.

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: ka7you@juno.com
Subject: [3270] Re: Help with JUNO
Message-ID: <19961030.222511.5431.9.ka7you@juno.com>

Laura,

Thanks for the phone number. It got me to a 'person' who gave me the 'technical' phone number at 1-800-586-6889. With that, I was able to talk to a 'techie' who was honestly (I think) stumped. She (the Techie) put another technician on the line and we spent about 20 minutes with him, going over the events that lead up to this failure.

They were documenting it all, but didn't have an answer for me, other than to reload the software, and import the account again.

The one thing that I had previously overlooked, was that I had done a file de-fragmentation using Speed-Bak software. It may have triggered the inability of Juno to find the files. Juno does not like some de-fragmentation software. They were quite concerned that I had done that, and wanted to know what software I had used.

Again, thanks for the help.

7 3

Rod Johnson

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>
Subject: [3344] Re: How to feed an end fed wire antenna
Message-ID: <19961031230721.AAA15407@LOCALNAME>

At 09:37 PM 10/31/96 +0000, you wrote:

>As a follow-up to my tree fishing post yesterday, I'd like to ask
>a basic question: how do people usually feed end-fed wire antennas?
>(Please, no responses of "at the end" :-) I'm sure there is no single
>answer, but I'm looking for simple solutions (it's a simple antenna,
>after all) for keeping the RF out of the shack.

>*****

Depends on how lucky and/or conscientious you are Gary...

IF you're REALLY lucky, you may have the requisite RF out
impedance and an antenna length of odd 1/4-wave multiples,
in which case you may need nothing more complicated than the
correct connector. HOWEVER.... most mortals require at least
a simple series or parallel tuned circuit to do the matching.
Long wires usually have hi Z, over 1k-ohms, beyond most rigs
w/o pi-networks built in.

GET A TUNER They provide:

- 1.) matching for most common ant. types/conditions.
- 2.) a degree of pre-selection to prevent overload/intermod from
strong out of band sigs.
- 3.) a circuit to ground, (usually), preferred over your final amp.
to bleed off static charge/noise.

There are other reasons, but these should sell anyone on a tuner.

The ARRL handbook (and others) have lots of easy HB solutions.

good DX 73 =s= QRP #579

Seabury "Seab" Lyon AA1MY

44 Codfish Hill Road

Bethel, CT, 06801, USA

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>
Subject: [3348] Re: How to feed an end fed wire antenna
Message-ID: <19961031235703.AAA7542@LOCALNAME>

Yop... now that I re-read... good point, Michael. GARY!run the longwire
all the way to the tuner, or, run 450-ohm ladder line up to the feed
point and leave one side unconnected but secure to the insulator.
Don't use coax at all between tuner and ant. wire. It's a terrible
Z match and can actually arc over, even at 100 watts, at hi RF voltage loop.
(-guess that'll teach me to fire in the dark, eh?)

At 11:33 PM 10/31/96 +0000, you wrote:

>Seab --

>

>I'm not sure, but I think Gary's question was a more basic one. For
>example, I believe that he was wondering if he should run coax out to the
>end of the antenna, and, if so, what he should do with the end of the coax
>shield since there is no opposite wire.

>

>-----

>> From: Seabury Lyon, AA1MY <SSLYON@postoffice.worldnet.att.net>

>> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

>> Subject: Re: How to feed an end fed wire antenna

>> Date: Thursday, October 31, 1996 3:07 PM

>>

>> At 09:37 PM 10/31/96 +0000, you wrote:

>> >As a follow-up to my tree fishing post yesterday, I'd like to ask

>> >a basic question: how do people usually feed end-fed wire antennas?

>> >(Please, no responses of "at the end" :-) I'm sure there is no single

>> >answer, but I'm looking for simple solutions (it's a simple antenna,

>> >after all) for keeping the RF out of the shack.

>> >*****

>> Depends on how lucky and/or conscientious you are Gary...

>> *IF* you're REALLY lucky, you may have the requisite RF out

>> impedance and an antenna length of odd 1/4-wave multiples,

>> in which case you may need nothing more complicated than the

>> correct connector. HOWEVER.... most mortals require at least

>> a simple series or parallel tuned circuit to do the matching.

>> Long wires usually have hi Z, over 1k-ohms, beyond most rigs

>> w/o pi-networks built in.

>>

>> *GET A TUNER* They provide:

>> 1.) matching for most common ant. types/conditions.

>> 2.) a degree of pre-selection to prevent overload/intermod from
>> strong out of band sigs.

>> 3.) a circuit to ground, (usually), preferred over your final amp.
>> to bleed off static charge/noise.

>> There are other reasons, but these should sell anyone on a tuner.

>> The ARRL handbook (and others) have lots of easy HB solutions.

>> good DX 73 =s= QRP #579

>> Seabury "Seab" Lyon AA1MY

>> 44 Codfish Hill Road

>> Bethel, CT, 06801, USA

>>

>

Seabury "Seab" Lyon AA1MY

44 Codfish Hill Road

Bethel, CT, 06801, USA

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: John Meade/SMC <John.Meade@smc.com>
Subject: [3303] Re: Need help for club demonstration. Where can we purchase kits?
Message-ID: <9610312031.AB0173@notes.smc.com>

Ten-Tec kits has a lot of neat things in their catalog. They have a special quantity price on a regen SW receiver which might make a nice club project. I don't have the phone number handy (I'm at work) but any QST etc. has Ten Tec in it. Give them a call. I bought their any-band DC receiver (\$29) and the noise-bridge tuner-tuner (\$10). Very high quality, and inexpensive.

73, John W2XS

===== On Thurs, 31 Oct 1996 - pmk wrote: =====

cc:

From: pmk @ juno.com @ INTERNET
From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
Subject: Need help for club demonstration. Where can we purchase kits?

I am doing a demonstration at our next club meeting and I need help where

they (and myself)

can purchase kits. I have noticed that NORCal have been doing QRP

kits

for a few years but

can I or someone else purchase them ? Any kit manufacture is

welcome.

That is the hardest part is finding the kits. No one seems to know much besides the local

AES. There are many

that would build them . I am sure the hardest part is advertizing is

to

expensive so heres a

chance to get some free advertizement to the local club. There are usually about 50+ that show

up each month and word of mouth is usually the best advertizement.

Thanks de Patrick KD40BQ

Orlando Amateur Radio Club

ar

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [3322] Re: Need QSL Info
Message-ID: <2.2.32.19961030061541.006af2a8@tir.com>

At 12:57 10/31/96 -0800, you wrote:
>I tried my QRP+ SSB in the CQWW test last weekend.
>Anyone seen the QSL route for

CY0XX WA4DAN
9J2ST 9J2SZ was spotted on the DX PacketCluster - no manager info
Heard 9J2SN, I think, giving out an SP manager after the contest
FW20I was spotted on the DX PacketCluster - no manager info

Nothing in the DB0SDX or W6GO QSL Manager Databases.

73
Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com <---- new
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [3278] Re: Routing feedline thru attic vent
Message-ID: <Pine.SOL.3.94.961031064548.28079B-100000@utkux4.utcc.utk.edu>

Mike,

The metal vent will not affect the RG8X (unless it crimps or cuts it). It will affect the 450 line unless you can put in something like a PVC section with some insert to keep the line centered in the tube and hence equidistant from the metal. Degree of effect is hard to predict, but a tube system usually works.

If you make an opening in or around the vent, be sure to seal it with duct

tape or other means: attics are nesting places for lots of stinging bugs and for starlings and squirrels, who will take a small opening and in no time make it a big one. I usually put packets of rodent bait/poison near the opening, just in case. Not a nice thought, but necessary for house protection--unless you love the sound of scurrying feet above your head.

Hope this is useful.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [3372] Re: ss Final Note B4
Message-ID: <199611010429.VAA00086@dancris.com>

At 02:06 AM 11/1/96 GMT, you wrote:

>
> This contest will not work for attic
> antennas and QRP levels. Too much competition.
>

>SS is again, not for the faint of heart.
>
> Get your rest 'cuz you are gonna need
>it. You'll
>have more serious problems.
>

Boys (and ladies), check out the psychological warfare tactics used here! Nothin' like trying to shake up the opposition. I know I'm not in this class, so it's gonna be fun to sit and watch from the sidelines while I try to get what I can. I think the CA-TX Fox game is nothing compared to what is brewing here!

Can't wait to see the final scores.

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any order of importance.

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: John Meade/SMC <John.Meade@smc.com>
Subject: [3327] Re: SWR protection schemes? Finals
Message-ID: <9610312344.AA0459@notes.smc.com>

I think I remember that it's the capacitance of the zener that reduces spurious oscillations. I think W7EL wrote about this in "Solid State Design for Radio Amateurs", an invaluable ARRL publication.

John W2XS

===== On Thurs, 31 Oct 1996 - daniel wrote: =====

cc:
From: daniel @ pandora.lugs.org.sg ("W. Daniel, 9V1ZV") @ INTERNET
From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
Subject: SWR protection schemes? Finals

Hi Gang,

In one of the recent posts, I recall reading that the zener diode does not really protect the finals of the transistor through it's zener action because it is too slow to respond. I'd like to know if this is true.

If so, what would be a viable way to introduce some protection against SWR mismatches for the finals of the amplifier? Thanks.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg          |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: jdenison@aisp.net (JOEL DENISON)
Subject: [3287] RE: The FOX
Message-ID: <19961031133532119.AAA74@slip1.ts-f-merrill.caps.maine.edu>

I wOndered up and down 7.040 + - ten and noware was my friend, the

FOX. Out Foxed? I doubt it. I don't think the little critter had the energy to run up to Maine last nite.

It's been a season of shy or tired foxes and their seams two bee a pattern hear. What could it bee? I suspect a rf shield somewear north of NYC. I can't konfirm this but it is possible.

I suspect sheep would be e-z-er to catch and more likely to enter Maine. Of coarse, winter is comeing and I think the sheep would stay warmer longer. :-)

Bye now
God Bless
Joel

WA5CVM	Qrp ARCI #4066	NE-QRP #476	QRP-L #765
Joel Denison			
81 High street	Horiz. Loop up 30ft	Inverted V up 33ft.	
Farmington, Maine 04938			
jdenison@aisp.net	QRP PLUS 5w	SSB & CW	

From owner-qrp-l@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [3306] Re: W6RCA Triangular Loop

William wrote:

>It seems, from this rough test, that the actual polarization
>is oblique, between vertical and horizontal.

LB wrote:

>Compared to horizontal dipoles and loops, the triangle has
>a much lower angle of maximum radiation, but it also has
>enough higher angle radiation for shorter path QSOs.

Hi Guys, I designed this triangle to have close to equal vertical low-angle and horizontal medium-angle radiation. That would imply that it is not a good vhf/uhf antenna. It was designed for HF shortwave operation. The vertical radiation is maximum at 18 degrees take-off-angle. The horizontal radiation is maximum at 60 degrees take-off-angle. Vertical and horizontal radiation are equal at 27 degrees. I wanted an antenna that would have a big footprint. This one covers close in to far out with a horizontal beamwidth of 2x100 degrees.

If one wants only low-angle radiation, good for dx, a vertical rectangular loop is a good antenna.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [3340] Re: W6RCA Triangular Loop
Message-ID: <Pine.SOL.3.94.961031170437.26674B-100000@utkux4.utcc.utk.edu>

On Thu, 31 Oct 1996, Cecil A Moore wrote:

> Hi Guys, I designed this triangle to have close to equal
> vertical low-angle and horizontal medium-angle radiation.
> That would imply that it is not a good vhf/uhf antenna. It was
> designed for HF shortwave operation. The vertical radiation is
> maximum at 18 degrees take-off-angle. The horizontal radiation
> is maximum at 60 degrees take-off-angle. Vertical and
> horizontal radiation are equal at 27 degrees. I wanted an
> antenna that would have a big footprint. This one covers
> close in to far out with a horizontal beamwidth of 2x100 degrees.
Cecil, and all,

The HF properties of an antenna that is up only a fraction of a wavelength would only be transferrable to a VHF/UHF antenna up the same fraction of a wavelength. Above about 2 wavelengths (about 12-13' at 2 meters) the antenna approximates its free space properties, with an elevation pattern that shows a low angle of maximum radiation, whether horizontal or vertical. Virtually all the antennas I have transferred from HF to VHF at 30' above ground have an angle of max radiation of about 3 degrees, with azimuth patterns close to free space patterns, but with additional gain due to ground reflections. Hence, the triangle had a gain of about 8.0 dBi at 2 meters and 30' up, while the half square is about another dB up.

Although the polarization of the antenna's fields is important in point-to-point communications common on VHF and UHF, the individual polarized fields and their T-0 angles are less important than the overall or total far field at HF, where ionospheric refraction tends to scramble polarization. The evidence of unscrambled polarization for skip communications suggests that it is far rarer than scrambled. The models I ran showed your main lobe at 20 degrees and a higher angle bulge in the 50-60 degree region, but the depression between the two was really quite minor. Hence, a user can expect relatively continuous coverage within about 3-4 dB from about 15 to 60 degrees, which is sort what I think you were aiming for. By way of contrast, the half square has a much lower level upper angle lobe, down by more than 10 dB relative to the main low level lobe--distinctly oriented to the long haul at the expense of the short haul. Of course, this holds true only if we assume 40 meters to be stable enough to make a test for the duration of a standard QSO, but the difference is likely to hold up statistically over a few months of

operating.

Actually, the idea of using your triangle at 2 meters has another appeal. I can see someone using one as a combination antenna and frame for a club banner on field day and other events when 2-meter communications is handy and publicity is also useful.

Now if I only had a couple of big trees on my once-upon-a-time farm acre to support your triangle, I'd have one up for 30 meters.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [3357] Re: W6RCA Triangular Loop
Message-ID: <3279526B.168F@earthlink.net>

Greetings,

I have been following your discussion with interest, as this might be a good solution at my new QTH. Does this antenna work on any of the higher bands? Any experience that you might relate would be helpful.

73, Ken,

N6TZV,

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Kevin Bunin <p014455b@pbfree.net.seflin.lib.fl.us>
Subject: [3365] Re: W6RCA Triangular Loop
Message-ID: <Pine.3.89.9610312128.A28120-0100000@pbfree.net.seflin.lib.fl.us>

Ken, a triangular loop is generally referred to as a Delta Loop antenna. There is a good article on it in the Antenna Handbook (ARRL). It will work on higher bands as well. The formula for calculating the length of the antenna is 1005 divided by the frequency in Mhz. 1005 div by 3.651 Mhz will yield the length. Divide it by three if you want a symmetrical antenna with equal lengths on three sides of the Delta Loop. Feeding it at the top of the antenna gives it horizontal polarization and at the bottom gives it vertical polarization (depending on where you connect the

feed line. Just enough info to maybe confuse you. Good luck and 73
de Kevin WV5Z

Kevin Bunin
p014455b@pbfreenet.seflin.lib.fl.us

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Stew Whitehouse <76443.501@compuserve.com>
Subject: [3301] re: What happens when Cycle 23 kicks in?
Message-ID: <961031165436_76443.501_GHN93-3@CompuServe.COM>

Hi Kevin, Boy are you in for a treat (no tricks) :-) Did you know that Japan has more hams than does the USA. You will when ten meters opens up! As the sunspot numbers start to climb, you will notice that 20 and 40 meters will stay open all night and 10 and 15 will get more and more active. When things really get rolling you will be able to work the world with qrp just about at will!

A few cycles back Heathkit sold a whole bunch of little AM transceivers referred to as "Benton Harbor Lunchbox's". The Tener (there was also a Sixer, and a Twoer) ran 5 watts input (about 2.5 watts output) and I'm sure it was responsible for more than one DXCC on ten meters!

Don't know what you friend was doing 20 years ago, but I don't think he was paying attention.

Oh! Heathkit is in Benton Harbor, Michigan, and the transceivers were about 6"x 10"x 5" boxes with a carrying handle on the top. Looked like a lunchbox. I still have my Twoer; my first rig and built on the kitchen table!

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [3318] RE: What happens when Cycle 23 kicks in?
Message-ID: <Pine.SUN.3.91.961031123842.25520D-100000@kitsune.swcp.com>

On Wed, 30 Oct 1996, Kevin Muenzler wrote:

> On Wednesday, October 30, 1996 12:32 PM, KFGlynn@aol.com wrote:
> >Hi gang,

> >
> >Everytime I mention QRP CW with a friend from the local club tells me that
> >I'll be talking to myself when the new solar cycle kicks in. How true is
> >this? Is QRP not going to cut it with QRM and associated noise, even on 10
> >or 15M?
> >
> >He ran QRP almost 20 years ago and now he tells me he's 100 watts min.
> >
> >Just curious to know experience of group.
> >
> >Tnx for info.
> >
> >72 Kevin KB2TE0
> >
> >
>
> Wrong, Wrong, Wrong....
> I ran QRP 20 years ago and I had a ball! I almost got bicentennial WAS-QRP
> but missed it by about a week. During the last cycle I was working Europe,
> Africa and Asia regularly using QRP on 10 and 15 meters. 10 meters was
> the best, low noise, high signal strengths. Don't let your friend
> discourage you, QRP during high sunspot cycles is fun! Now 40 and 80
> meters will be very difficult but 10 and 15 will be fun!
>
> Kevin, WB5RUE
>
Yes, 10 meters is the best band when the sunspots are high. Right now in
a sunspot low, 160 meters and even 80 mtrs has your best propagation. Im
building a one watt 10 meter cw xmtr right now, and expect to work the
world in a few more years!!! 72 Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [3338] Re: Zener Diode change?
Message-ID: <Pine.3.89.9610311427.A11600-01000000@netcom11>

DAN, I have not seen the specs on the chjip you mentioned, but I think
you could safely go with what RS has to offer. There's another way to
also drop V ---- using a rectifier diode in series with the power supply
drops the voltage by 0.7v. If you needed 3.6v, and you had a nominal 12v
supply, you could install a 5V regulator (78L05 for example) then in
series with the 5-volts output, solder two rectifier diodes, 1N4001 for
example, in series. Each one drops the voltage buy 0.7v and since you
are using 2 ---- $2 \times 0.7 = 1.4$, and $5.0 - \text{minus} - 1.4 = 3.6\text{v!}$

Granted you have now used 3-parts to replace ONE! But you can have a

precise voltage.

73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>

Subject: [3339] Re: Zener Diode change?

Message-ID: <Roam.3.0.1.846800358.27936.myers@bigboy>

> DAN, I have not seen the specs on the chip you mentioned, but I think
> you could safely go with what RS has to offer. There's another way to
> also drop V ---- using a rectifier diode in series with the power supply
> drops the voltage by 0.7v. If you needed 3.6v, and you had a nominal 12v
> supply, you could install a 5V regulator (78L05 for example) then in
> series with the 5-volts output, solder two rectifier diodes, 1N4001 for
> example, in series. Each one drops the voltage by 0.7v and since you
> are using 2 ---- $2 \times 0.7 = 1.4$, and $5.0 - \text{minus} - 1.4 = 3.6\text{v}$!
>
> Granted you have now used 3-parts to replace ONE! But you can have a
> precise voltage.

Well, the diodes won't be all that precise - the forward drop will
decrease as they heat up - but they will work.

Alternatively, an LM317 may do the trick - this is the sort of thing
that every ham's part stock should include ;-)

Dana KK6JQ

Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu Oct 31 23:11:48 1996

From: Dan Halbert <halbert@BBN.COM>

Subject: [3290] Re: [3251] Routing feedline thru attic vent

Message-ID: <199610311458.JAA11687@halite.Diamond>

>From: Mike Boice <kd0fx@worldnet.att.net>

...

>My question (phew! About time I got to it, huh?) is: How will this metal
>vent affect my RG-8x coax lines and 450 ohm window line?

Coax should certainly not be an issue.

I have several times run open-wire line through and almost next to metal, running up to 100 watts, and never noticed an effect. The "secret" is that I was always running the line perpendicular to the metal. It did not parallel it for any distance.

I did experiment, moving the line several inches away, and then close, and noticed no difference in how the antenna tuned up or in received signal strength. I never had it -right- next to the metal, but it was as close as 1/4". In one case I was going out a metal window frame; the other was running 300-ohm line through aluminum siding using a Radio-Shack through-wall TV-line-tube.

My results are strictly empirical.

Dan Halbert, KB1RT